PTO/SB/01 (11_00)
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UTILITY **PATENT APPLICATION TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.		BP3018			
First Inventor		Ba-Zhong Shen, Ph.D.			
Title	itle 16 QAM AND 16 APSK TTCM (TURBO TRELLIS CODED MODULATION) WITH MINIMUM BANDWIDTH OF 3 BIT/S/HZ				
Express Mail Label No.		EV 082608767 LIS			

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See MPEP chapter 6	CATION ELEMENTS 00 concerning utility patent application conte	ents	ADDRESS TO:	Assistant Comn Box Patent App Washington, D0		
1. X Fee Tran (submit an) 2. Applicant See 37 Compose 38 Compose	nsmittal Form (e.g. PTO/SB/17) original and a duplicate for fee processing) c claims small entity status. FR 1.27. cation [Total Pages 77 arrangement set forth below) we title of the invention ference to Related Applications at Regarding Fed sponsored R&D e to sequence listing, a table, outer program listing appendix and of the Invention amany of the Invention cription of the Drawings (if filed) Description of the Disclosure	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. X Assignment Papers (cover sheet & documents(s)) 10. X 37 CFR 3.73(b) Statement (when there is an assignee) 11. English Translation Document (if applicable) 12. Information Disclosure Statement (IDS)/PTO-1449 13. Preliminary Amendment 14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35				
6. Application Data Sheet. See 37 CFR 1.76					\$1500 and \$40, LOA	
or in an Application Continuation Prior application info For CONTINUATION O Box 5b, is considered	R DIVISIONAL APPS only: The entire disclosur a part of the disclosure of the accompanying c only be relied upon when a portion has been in	e of the proposition of the prop	of prior application No Group Art Unit: rior application, from which an	oath or declarat	tion is supplied under	_
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	X. Short, Ph.D.					
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City Austin		State	TX		78716-0727	
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Signature	ZX8	Root		Date	8/7/2003	

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 17

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

Complete if Known				
Application Number				
Filing Date				
First Named Inventor	Ba-Zhong Shen, Ph.D.			
Examiner Name				
Group Art Unit				
Atty Docket No.	BP3018			

TOTAL AMOUNT OF DAVMENT	- 100 0154000	Group rationic			
TOTAL AMOUNT OF PAYMENT	(\$) \$1540.00	Atty Docket No.	BP3018		
METHOD OF F	PAYMENT	FEE CALCULATION (continued)			
1. The Commissioner is hereby		3 ADDITIONAL FEES			
Deposit Account Number Deposit	overpayments to:	Fee Descrip Surcharge-late filing fer Surcharge- late provision or cover sheet			
Account Name		Non-english specification			
Charge Any Additional Fee F Under 37 CFR 1.16 and 1.17 Applicant claims small entitt See 37 CFR 1.27	, '	For filing a request for a Requesting publication Examiner action Requesting publication			
2. X Payment Enclosed:		Examiner action			
Check X Credit card	Money Other	Extension for reply with Extension for reply with			
FEE CALCULATION	ON	Extension for reply with			
1. BASIC FILING FEE Fee Description Utility filing fee Design filing fee		Extension for reply with Extension for reply with Notice of Appeal	in fourth month		
Plant filing fee Reissue filing fee Provisional filing fee SUBTOTAL(1)	(\$) \$750.00	Filing a brief in suppor Request for oral hearir Petition to institute a p Petition to revive - una Petition to revive unin	g ublic use proceeding voidable		
2. EXTRA CLAIM FEES	rom Below	Utility Issue Fee (or re	issue)		
reer	•	Design Issue Fee			
Extra Clain	ns Fee Paid	Plant Issue Fee			
Total Claims 57 -20** 37 X Independent 4 -3** 1 X Multiple Dependent Fee Description	18 = [666.00] 84 = [84.00] = [Petitions to the Commi Processing fee under 3 Submissions of Informa Recording each paten	7 CFR 1.17(q) tion Disclosure Stmt		
Claims in excess of	20	property (times number		\$40.00	
Independent claims in excess of 3 **Reissue independent claims over original patent		Filing a submission afte (37 CFR 1.129(a))	er final rejection		
**Reissue claims in and over original pa	excess of 20	For each addtional invo			
SUBTOTAL (2) (\$) 750	0.00	Request for Continued Request for expedited Ex Other fee (specify)	Examination (RCE) amination of design applicat		
**or number previously paid, if greater; For R	eissues, see above	Reduced by Basic Filing Fee F	Paid SUBTOTAL (3)	\$40.00	

SUBMITTED BY Complete (if applicable)					
Name (Print Type)	Shayne X. Short, Ph.D.	Registration No. (Attorney Agent)	45,105	Telephone	(512) 825-1145
Signature	SXShow	+		Date	8-7-2003



Phone: 949-450-8700 Fax: 949-450-8710

May 20, 2003

To whom it may concern:

I, Henry Samueli, hereby authorize Dee Henderson, Intellectual Property Portfolio Manager, to execute documents relating to US and foreign patent and trademark matters on behalf of Broadcom Corporation and/or its subsidiaries.

Henry Samueli, Ph.D.

Chief Technical Officer and Co-Chairman